

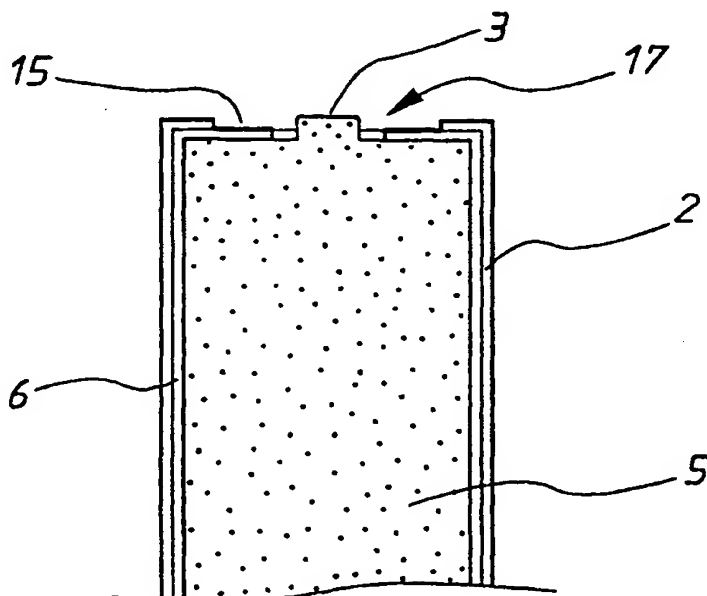
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 January 2001 (18.01.2001)

PCT

(10) International Publication Number
WO 01/04920 A1

- (51) International Patent Classification⁷: **H01G 17/00** (74) Agent: **BALDWIN SHELSTON WATERS**; 60 Margaret Street, Sydney, NSW 2000 (AU).
- (21) International Application Number: **PCT/AU00/00836**
- (22) International Filing Date: **12 July 2000 (12.07.2000)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data: **12 Jan 02/30 moz**
PQ 1578 12 July 1999 (12.07.1999) AU
PQ 1602 13 July 1999 (13.07.1999) AU
- (71) Applicant (for all designated States except US): **ENERGY STORAGE SYSTEMS PTY LTD [AU/AU]**; Riverside Corporate Park, Building 5, (Gate 4), 105 Delhi Road, North Ryde, NSW 2113 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **MAHON, Peter, John [AU/AU]**; 8/45 Meadow Crescent, Meadowbank, NSW 2114 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— With international search report.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
- (54) Title: **AN ENERGY STORAGE DEVICE**



(57) Abstract: An energy storage device (1) includes a cylindrical shrink wrap housing (2) having two opposed metal terminals (3, 4). An electrochemical device in the form of a dry cell alkaline battery (5) is disposed within housing (2) for providing an electrical potential between the terminals. An electric double layer supercapacitor (6) is wrapped around and mounted to housing (2) and connected to terminals (3, 4) in parallel with battery (5).

WO 01/04920 A1